

## Quick Reference Guide

March 2021  
Version 21.0

### Chapter 18 – Installing Swinging Doors

Door & Opening Prep	<ol style="list-style-type: none"> <li>1. Check door/frame for damage. If damaged, notify Construction Supervisor or Site Leader</li> <li>2. Verify door and size. Check house plan for swing and floor (carpet or hard flooring)</li> <li>3. Check Jack/King studs for excessive twist. If clearly out of square adjust with shims during installation.</li> <li>4. Following steps designed to reduce differences between widths of door and door frame to 3/8" or less</li> </ol>
Adjust Hinge Side Jack Stud	<ol style="list-style-type: none"> <li>5. Mark location of hinges on hinge side Jack stud.</li> <li>6. Measure door frame <u>at the head jamb</u> and rough opening at top/bottom hinge locations               <ol style="list-style-type: none"> <li>a. If difference at <u>either</u> location <math>\leq 5/8"</math> add a <math>1/8" \times 3" \times 5"</math> spacer to the top &amp; bottom hinge locations and go to step 7 below. Otherwise continue to step b.</li> <li>b. Nail (with <math>1\frac{1}{2}"</math> white trim nails) <b>combination</b> of <math>1/8"</math> or <math>1/4" \times 3" \times 5"</math> spacers at top &amp; bottom hinge locations until difference is <math>&lt; 5/8"</math> at both locations NOTE: All spacer should be placed w/<math>5"</math> dimension vertical &amp; minimum <math>1/8"</math> spacer at each location</li> </ol> </li> <li>7. Check if plumb with a 6' level, IF PLUMB:               <ol style="list-style-type: none"> <li>a. Place level against spacers, install spacers/shims at middle until flush with level.</li> <li>b. Proceed to Step 9</li> </ol> </li> <li>8. If NOT PLUMB               <ol style="list-style-type: none"> <li>a. Place level against spacers and shim top/bottom hinge areas until it is plumb</li> <li>b. Install spacers and/or shims middle hinge location until flush with level</li> </ol> </li> </ol>
Adjust Strike Side Jack Stud	<ol style="list-style-type: none"> <li>9. Add layers of <math>1/8"</math> or <math>1/4"</math> spacers/shims to strike side jack stud at top/bottom hinge locations until difference in opening is <math>&lt; 3/8"</math></li> <li>10. Place level against spacers and Install spacers/shims at middle hinge area until flush with level</li> </ol>
Temporarily Secure Door	<ol style="list-style-type: none"> <li>11. Set door in rough opening, tight to hinge side Jack stud. If in carpet area (see House Plan), insert scrap floor trim under each side jamb. Otherwise, set directly on finished flooring</li> <li>12. Center hinge side jamb between both wall surfaces</li> <li>13. Using shims against the head jamb, temporarily wedge door against hinge side with horizontal pressure</li> <li>14. Check that head jamb left/right reveals are equal. Shim hinge or strike jamb up or down as needed.</li> <li>15. Verify that bottom of <u>hinge</u> jamb is still centered between wall surfaces.               <ol style="list-style-type: none"> <li>a. Add spacers/shims at bottom of jamb and <u>temporarily</u> secure it with one <math>2\frac{1}{2}"</math> collated nail <u>above the spacers/shims</u>.</li> <li>b. Do the same for the strike side jamb.</li> </ol> </li> <li>16. Recheck hinge side is still plumb, centered between wall surfaces</li> <li>17. Verify consistent door stop contact, adjust side jambs as needed</li> </ol>
Permanently Secure Door	<ol style="list-style-type: none"> <li>18. With door still tight to hinges side jamb, secure with <u>one</u> <math>2\frac{1}{2}"</math> collated nail at each hinge location on <u>one side</u> of doorstop and through shims.</li> <li>19. Re-check plumb (on hinges) and jamb centered in wall. Adjust as required.</li> <li>20. Replace one short screw in top hinge with #8 3" brass screw. Adjust for equal head jamb reveals.</li> <li>21. Recheck door operation and <u>head jamb</u> reveal. Adjust strike side jamb up/down as needed</li> <li>22. Verify uniform contact with door stop, latch &amp; strike alignment, jambs centered within wall (max <math>1/8"</math>) past/shy of wall surface. Adjust as required.</li> <li>23. Check reveals at top and bottom of <u>hinge</u> jamb               <ol style="list-style-type: none"> <li>a. Shim top as required so top reveal equals reveal below top hinge. Secure with <math>2\frac{1}{2}"</math> collated nails on one side of doorstop.</li> <li>b. Shim and nail bottom of hinge jamb until reveal equals top reveal.</li> </ol> </li> <li>24. Check reveals at top and bottom of <u>strike</u> jamb (<u>minimum <math>1/8"</math></u>). Shim and nail at the bottom of jamb until equals top reveal.</li> <li>25. Install and nail (same side of doorstop) remaining shims: latch side top &amp; bottom hinge locations; above the latch location.</li> <li>26. Install shims in center of head jamb, adjust for consistent reveal across jamb, and nail on one side of doorstop.</li> <li>27. Re-verify contact between door and doorstop at head jamb and strike jamb. Tap 2x4 scrap or spacer on jamb (<math>&lt; 1/8"</math> from plaster) and/or doorstop to adjust. <u>Last resort</u>: remove/re-install doorstop.</li> <li>28. Install and nail additional shims between hinge locations, strike and hinge side (total 6 sets of shims each side). Adjust for uniform reveals.</li> <li>29. At all shim locations, nail at opposite side of doorstop.</li> <li>30. Recheck complete door operation and reveals and adjust if required.</li> <li>31. Install Door Trim, lockset and door stop</li> <li>32. Set and putty all nail holes.</li> </ol>

## Quality Points

### Chapter 18 – Installing Swinging Doors

- Verify install for hard flooring or carpeted area
- Door opens and closes freely and latches snug to striker plate and against door stop
- Uniform reveal at top and sides between door and jamb
- Door trim fits tight to jamb (NO GAP) and is nailed properly (check visually and with “TAP TEST”) and uniform consistent reveal on ALL jambs (sides and top)
- Tight fitting and GLUED miter joints
- All nails set and puttied
- Appropriate door stop installed